Message

From: Anup Bandivadekar [anup@theicct.org]

Sent: 5/2/2016 7:48:33 PM

To: John German [john@theicct.org]

CC: Bunker, Byron [bunker.byron@epa.gov]; Muncrief Rachel [rachel@theicct.org]; Drew Kodjak [drew@theicct.org];

Wehrly, Linc [wehrly.linc@epa.gov]; Zaremski, Sara [zaremski.sara@epa.gov]; Courtois, William

[Courtois.William@epa.gov]

Subject: Re: FTP bag data on US diesel vehicles

Just to round things out, details of the ongoing Japanese investigation are here: http://www.mlit.go.jp/jidosha/jidosha_tk10_000035.html

All in Japanese though. The interim report is here (http://www.mlit.go.jp/common/001129369.pdf), but if you are looking for test results, then please see 1-2 from second meeting (Japanese cars: http://www.mlit.go.jp/common/001121838.pdf), 1 from third meeting (BMW and Mercedes http://www.mlit.go.jp/common/001129360.pdf).

Anup

On May 2, 2016, at 10:21 AM, John German < john@theicct.org > wrote:

OK, the three reports are attached, Byron. Hopefully they go through (about 9 MB total).

Only one of them is in English, so I here are links to two blogs that ICCT has already written specifically on the reports:

http://www.theicct.org/blogs/staff/first-look-results-german-transport-ministrys-post-vw-vehicle-testing

http://www.theicct.org/blogs/staff/first-look-results-post-vw-diesel-vehicle-testing-france-uk

plus a blog that Rachel wrote assessing how well they looked for defeat devices: http://www.theicct.org/blogs/staff/defeat-device-testing-eu-so-far-not-so-good

My blog is supposed to be the last of the four blogs on the reports.

John

[The attachment French - UTAC test results Apr2016.pdf has been manually removed]

[The attachment Germany KBA - diesel testing Apr2016.pdf has been manually removed]

[The attachment UK - vehicle-emissions-testing-programme - Apr2016.pdf has been manually removed]

On May 2, 2016, at 12:56 PM, Bunker, Byron < bunker.byron@epa.gov > wrote: Thanks John. Just the three recent reports from UK, Germany and France. Thanks, Byron ******** Byron Bunker **Director Compliance Division** Office of Transportation and Air Quality **Environmental Protection Agency** 2000 Traverwood Drive Ann Arbor, MI 48105 Bunker.Byron@epa.gov Phone: (734) 214-4155 Mobile: (734) 353-9623 ********** From: John German [mailto:john@theicct.org] Sent: Monday, May 02, 2016 11:28 AM To: Bunker, Byron <bunker.byron@epa.gov> Cc: Anup Bandivadekar <anup@theicct.org>; Muncrief Rachel <rachel@theicct.org>; Drew Kodjak <<u>drew@theicct.org</u>>; Wehrly, Linc <<u>wehrly.linc@epa.gov</u>>; Zaremski, Sara <zaremski.sara@epa.gov>; Courtois, William < Courtois.William@epa.gov> Subject: Re: FTP bag data on US diesel vehicles I think we mentioned 10-15 reports in the draft post, Byron. Did you want all of them? John On May 2, 2016, at 10:45 AM, Bunker, Byron
<bunker.byron@epa.gov> wrote: Hi John, I am out this morning but will try to follow up with our team this afternoon on the request. In the meantime, can you forward the various reports mentioned in the post to me? Thanks, **Byron** Sent from my iPhone

On May 2, 2016, at 10:33 AM, John German < john@theicct.org > wrote:

Byron,

Drew wants a specific signoff from EPA, that we can use your data, before we publish the blog. Attached is the latest draft (note that it is still subject to change and approval, so please don't circulate it beyond this group). The hot restart section starts at the bottom of page 5 and the use of the EPA data is discussed from the bottom of page 7 to the top of page 8. Is the use of EPA bag data discussed on these pages OK?

In addition, it appears that the data set includes class 2b (and 3?) trucks. I divided the data by calculating the bag-weighted FTP emissions and only using data below the Tier 2 bin 5 NOx emission standard (0.07). Is this an appropriate way to determine data on light-duty diesels? Alternatively, can EPA identify the emission standard to which the vehicles were certified to?

We would appreciate a prompt response, as this is the final issue we need to resolve to post the blog and the data reports from the French, German, and UK Agencies are a huge deal in Europe.

John

<Blog JG - the defeat device exclusion mirage v7.docx>

On Apr 26, 2016, at 9:47 PM, John German < john@theicct.org > wrote:

More importantly, almost half of the vehicles in the list (39 out of 86) had FTP weighted NOx emissions that are above the Tier 2 bin5 standard most at least twice the bin 5 standard.

Are class 2B/3 trucks included in the data? If so, could you either restrict the data to light-duty vehicles or let me know which are the 2B/3 vehicles?

On Apr 26, 2016, at 9:22 PM, John German < john@theicct.org> wrote:

This is great, Byron. And timely - I have a blog drafted and I'll get this data added to the draft tomorrow.

Question - can you give us the key to the manufacturer codes? Some of them are not obvious who they refer to. Also, there were a couple vehicles that did not have a manufacturer code (given the extensive nature of the test data, I can easily just delete these if it is not easy to get the data).

John

On
Apr
26,
2016,
at 8:45
PM,
Bunker
, Byron

bunk
er.byro
n@epa
.gov>
wrote:

Hi John,

Attache d are

the FTP results that the team pulled togethe r from testing at NVFEL. Thanks to Bill Courtoi s and Sara Zarems ki for making this happen I hope this is helpful. If you draw any importa nt conclus ions from the data we would appreci ate hearing about it. Thanks, Byron

***** ***** ***** **

Byron

Bunker Directo

Compli

ance

Division

Office

of

Transp

ortatio

n and

Air

Quality

Environ

mental

Protecti

on

Agency

2000

Traver

wood

Drive

Ann

Arbor,

MI

48105

<u>Bunker.</u>

<u>Byron</u>

@epa.g

<u>0V</u>

Phone:

(734)

214-

4155

Mobile:

(734)

353-

9623

**

From: Z

aremski

, Sara

Sent: T

uesday,

April

26,

2016

2:40

PM

To: Bun

ker,

Byron

<<u>bunke</u>

r.byron

@epa.g

<u>ov</u>>;

Wehrly,

Linc

<wehrly

.linc@e

pa.gov>

; Alson,

Jeff

<alson.j

eff@ep

a.gov>

Subject

: RE:

FTP bag

data on

US

diesel

vehicles

Attache

d are

the

results

we got

from

TATD

(we

filtered

out

some

of the

extrane

ous

informa

tion).

Please

let me

know if

you

need

anythin

g else.

Just to

note

there

three

rows per test (one for each bag) and the rightmost column comput es the NOx ratio of bag 1 to bag 3.

sara

From: B unker, Byron Sent: M onday, April 25, 2016 1:00 PM To: Zar emski, Sara <zarem ski.sara @epa.g <u>ov</u>>; Danzeis en, Karen <Danzei sen.Kar en@ep a.gov>; Wehrly, Linc <wehrly <u>linc@e</u> pa.gov> ; Alson, Jeff <alson.j eff@ep

a.gov>

Subject

: RE:

FTP bag

data on

US

diesel

vehicles

Hi Sara,

Yes,

can you

have

someon

e check

with

TATD

on

this? If

it is a

large

work

burden,

io aci oraci

we

should

respon

d to

John

and let

him

know

that we

aren't

able to

accom

modate

. If

data

query

will be

reasona

bly

quick/e

asy,

then I

would

like for

us to

get the

request

ed

data.

Thanks, Byron ***** **** **** ***** * * Byron Bunker Directo r Compli ance Division Office of Transp ortatio n and Air Quality Environ mental Protecti on Agency 2000 Traver wood Drive Ann Arbor, MI 48105 Bunker. Byron @epa.g ΟV Phone: (734)214-4155 Mobile: (734)353-9623 ***** ***** *****

* *

From: Z aremski , Sara Sent: M onday, April 25, 2016 12:51 PM To: Dan zeisen, Karen <Danzei sen.Kar en@ep a.gov>; Bunker, Byron <<u>bunke</u> <u>r.byron</u> @epa.g <u>ov</u>>; Wehrly, Linc <wehrly .linc@e pa.gov> ; Alson, Jeff <alson.j eff@ep a.gov> Subject : RE: FTP bag data on US

Thank you Karen,

diesel vehicles

Byron, As you can see this is not informa

tion

that we

have in

Verify.

We can

reach

out to

TATD if

IAIDI

you

would

like, but

that

will

only be

for EPA

run

confirm

atory

tests.

We do

not

know

how

much

effort

this will

be for

TATD.

They

. ,

measur

e this

informa

tion,

but

they do

not

send it

to us so

l am

not

sure

how big

of an

"ask"

this is

for

them.

Let me

know if

you would

like us

to reach out to TATD. sara

From:
Danzeis
en,
Karen
Sent: M
onday,
April
25,
2016
9:07
AM
To: Zar
emski,
Sara

<<u>zarem</u> ski.sara

@epa.g

<u>0</u>4>

Subject

: RE: FTP bag data on US diesel

diesel vehicles

Hi Sara,

Unfor tunatel y for John, the Verify system only collects emissio n test result data at the bag level for fuel econo my and

CO2. 1

talked to Bob to confirm that (in case I was missing something). H e agreed that we don't have it in Verify; howeve r, the lab collects it for their fuel econo my calculat ions. It' unclear as to how much effort it would take them to retrieve it and they would obvious ly only have it for vehicles we tested here. Karen

..........

Karen E. Danzei sen Informa

tion Technol ogy

ogy Speciali st

Office of

Transp ortation and Air

Quality

U.S. Environ mental

Protecti

on

Agency

<u>danzeis</u> en.kare

n@epa.

<u>gov</u> (734)21

4-4444

www.ep a.gov/n vfel/

From: Z aremski

, Sara

Sent: S unday,

April 24,

2016

9:46

AM

To: Dan zeisen,

Karen

<<u>Danzei</u>

<u>sen.Kar</u>

en@ep a.gov>

Subject

: Fwd:

FTP bag data on US diesel vehicles

Can you see what can be pulled togethe r for this in a relative ly short timefra me? Stop by Monda y if you have

, Sara Sent

follow up questio ns. Thanks

from my iPhone

Begin forwar ded messag e:

> F r o m

Z a r e m S k i , S a a < Z <u>a</u> ŗ <u>e</u> <u>m</u> <u>s</u> <u>k</u> <u>i</u> : <u>S</u> <u>a</u> <u>r</u> <u>a</u> <u>@</u> <u>e</u> р <u>a</u> a e A p 2 4 2

0 1 6 a 9 : 4 4 : 2 1 A M E D T T 0 ** В u n k e r , В у r o n < b u n k e r . <u>b</u> у п о ш е р <u>а</u>

 \mathbf{e} S e h c e S I W a k 0 h e r I \mathbf{f} W e h a \mathbf{v} e h e d a a \mathbf{W} h i c h W e \mathbf{m}

a У n 0 0 r a h 0 S e m 0 d e 1 У e a S S h e S h 0 u 1 d b e a b 1 e t 0 p u i t t

0 g e t h e r I b e e \mathbf{v} e \mathbf{W} e d i d n 0 t S t a r c o e \mathbf{c} t i n g b a g d a t a u n t i 1 m

o r e e ce n t 1 у W e W 0 o \mathbf{k} i n 0 t h i n g 0 \mathbf{m} 0 r r 0 \mathbf{W} S e n

t f r o m m y i P h o n e O n A p r 2 4 , 2 0 1 6 a t 9 1 1 A M , В u n k e r , В у r o n < b <u>u</u> <u>n</u>

H S a r

P I e a s e s e e J o h n

s n o t e

0 р Î e d b е 0 W 3 S t h Ĭ S 5 0 m е t h Î n g ŧ h а ŧ K а r e n C 0 U d d 0 f 0 r u S ŧ h Ĭ S W

е e k 3 f t h а t C а n h а р р е n W ì t h 0 u ţ u n r е а S 0 n а b У ì m p а C t i n g h е r 0 t

h e r W 0 r k e t S S е е Ĭ f W e C а n S е n ď S 0 m е t h Î n g r е S р 0 n S ì ٧ е t 0 , 0 h n

T h а n k S В У r 0 n В 0 n В U n k e

r

D Ĭ r е C t 0 r C 0 m р Ĭ а n C е D Ĭ ٧ S i 0 n 0 f i C e 0 f T r а n S р 0 t а t i 0 n а n d Α Î

Q u а ŧ У E n ٧ Î r 0 n m e n ŧ а r 0 ŧ e C ŧ 0 n А g е n C У 2 0 0 0 T r а ٧ е r W 0 0 d D r

F 0 m : J О h n G е r m а n [m a # O 0 h <u>n</u> t h e i ũ C <u>ŧ</u> ٤ 0 Ţ g] S е n t :

d G e r \mathbf{m} a n g 0 \mathbf{v} e r n m e n t S h a \mathbf{v} e r e 1 e a S e d t h e r e S u 1 S 0 \mathbf{f} t h e r t e S i

n g o n d i e S e 1 c a r S i n Е u r 0 p e \mathbf{W} t h a 1 m 0 S t 5 0 \mathbf{v} e h i c 1 e S t e S t e d i n

t o t a 1 T h i S t e S t i n g h a S c 0 n \mathbf{f} i r m e d h i g h i n u S e N O X e m i S S i o n S

o n t h e 1 a r g e m a j 0 r i t у o \mathbf{f} d i e S e 1 S b u t f 0 r t h e m 0 S t p a r t t h e a g e n

c i e S a r e S a y i n g t h a t t h i S i S OK b e \mathbf{c} a u S e 0 t h e d e f e a t d e v i \mathbf{c} e e X \mathbf{c}

1 u s i 0 n \mathbf{f} 0 r e n g i n e d a m a g e T h e t W o S p e \mathbf{c} i f i c a r e a S 0 \mathbf{f} c o n \mathbf{c} e r n a

r e a m b i e n t t e m p e r a t u r e a n d h 0 t r e S t a r t S a S e m i S S i 0 n S S \mathbf{k} У r 0 c

k e t b e 0 W 1 0 1 5 C (5 0 6 0 F a n d a \mathbf{f} t e r a h 0 t r e S t a r t M a n u \mathbf{f} a \mathbf{c} t u

a t u r e \mathbf{S} d u e t 0 c0 n d e n S a t i 0 n i n t h e e n g i n e d e \mathbf{f} e a t d e \mathbf{v} i c e e X \mathbf{c} 1 u

s i o n) T h e У a 1 S 0 c1 a i m t h a t N O X e m i S s i 0 n S a r e h i g h e r a \mathbf{f} t e r h 0 t

r e S a r t S d u e t 0 h i g h e r c0 \mathbf{m} b u S t i 0 n t e \mathbf{m} p e r a t u r e S I \mathbf{W} a S h o p i n

g t o \mathbf{f} n d r e 1 e \mathbf{v} a n t d a t a \mathbf{f} r o m E P A S 0 n 1 n e t e S t d a t a f i 1 e S t o r e b

u t t h e S e c1 a i m S U n f o r t u n a e у ; i t a p p e a r S t h a t d i e S e 1 \mathbf{S} a r e

e X c e p t \mathbf{f} r 0 \mathbf{m} t h e 2 0 F a n d 5 0 F t e S t i n g r e q u i r e m e n t S S 0 I c a n t \mathbf{S} e

e h 0 W e m i S S i o n S W 0 r \mathbf{k} a t co 1 d e r t e m p e r a t u r e S i n t h e U S W h i c h 1

e a \mathbf{v} e \mathbf{S} \mathbf{c} o m p a r n g b a g 1 0 b a g 3 e S t r e S u 1 t S t 0 e a 1 u a t e t h e c1 a i

m a b 0 u t h i g h e r N O X e m i S S i 0 n S a f t e r h o t r e S t a r t S U n f 0 r t u n a t

e 1 y t h e t e S \mathbf{c} a r S d o n 0 n c1 u d e e \mathbf{m} i S S i 0 n S b у b a g I ch e \mathbf{c}

k e d a \mathbf{C} e r a t e f o \mathbf{C} 0 n \mathbf{f} 0 r m t y (2 0 1 2 A u d 3 0 L d i e e a n d i

t d o e S n o t h a \mathbf{v} e b a g d a a e i t h e r T h u S I a m k i n g i f \mathbf{E} P A c a n p r

0 \mathbf{V} i d \mathbf{e} u S W h N 0 X \mathbf{e} m i i 0 n b b a g f 0 2 0 9 2 0 1 i g h t d u t y d į

e S e S T h i S \mathbf{W} 0 u 1 d b e d e \mathbf{f} i n i t i \mathbf{v} e e v i d e n \mathbf{c} e r e \mathbf{f} u t i n g t h e m a n u f

a \mathbf{c} t u r e r S c 1 a i \mathbf{m} S a b o u t h i g h e r N O X e m i \mathbf{S} S i o n a f e r h 0 t r e S t a r t S

W h i c h W 0 u 1 d b e e X t r e m e 1 y \mathbf{v} a 1 u a b 1 e t o I $\begin{array}{c} C \\ C \\ T \end{array}$ i n 0 u r \mathbf{W} o r \mathbf{k} i n E u r 0 p

t a ? Q u i k 1 у ? J 7 3 3 5 5 1 0 5 5 <John Germa nNOx Query_ 160426 $\stackrel{-v2.xls}{>}$

c

0 h n

4